NYBG Herbarium Imaging Equipment Specifications
Preferred Lightbox Workstation

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Items listed are specific to needs at NYBG.
Please email Kim (kwatson@nybg.org) with any related questions for outside NYBG.
***Some items may be back-ordered, presumably due to coronavirus pandemic*

Nikon Camera and accessories

1 Nikon D850 DSLR Camera (Body Only) = Full Frame, 45 MP $2996.95

1 Nikon EH-5d AC Adapter = $99.95 **Back-ordered 06/2020

1 Nikon EP-5B Power Supply Connector $48.00 **Back-ordered 06/2020

1 USB 3.0 Type-A Male to Micro Type-B Male Cable (6') = $8.99

Nikon Lens

1 Sigma 50mm f/1.4 DG HSM Art Lens for Nikon F = $950

LED Panels to retrofit existing MK Digital Direct Photo eBox Bio

Tested:
4 Dracast Yoga Series LED500 Bi-Color Flexible Panel = $300 reg price, often $175 each = $700 (-$1200) **Back-ordered 06/2020

3200K:	261 fc / 2810 lux at 1.64' / 0.5 m 104 fc / 1120 lux at 2.95' / 0.9 m 30.2 fc / 325 lux at 5.91' / 1.8 m 14.4 fc / 155 lux at 8.86' / 2.7 m
4400K:	571.3 fc / 6150 lux at 1.64' / 0.5 m 218.3 fc / 2350 lux at 2.95' / 0.9 m 62.7 fc / 675 lux at 5.91' / 1.8 m 30.7 fc / 330 lux at 8.86' / 2.7 m
5600K:	325.1 fc / 3500 lux at 1.64' / 0.5 m 126.1 fc / 1357 lux at 2.95' / 0.9 m 36.2 fc / 390 lux at 5.91' / 1.8 m 17.7 fc / 190 lux at 8.86' / 2.7 m

Alternative, which should work as well, if not better, though not yet tested:
4 Dracast LED500 Yoga Daylight Flexible Panel = $249 (sale $150 on 06/2020)
BH #DRYGFL500D • MFR #DRYGFL500D

5600K:	622.4 fc / 6700 lux at 1.64' / 0.5 m 243.4 fc / 2620 lux at 2.95' / 0.9 m 62.7 fc / 675 lux at 5.91' / 1.8 m 33.5 fc / 361 lux at 8.86' / 2.7 m

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Preferred computer at NYBG for use at an Imaging Station

1 Dell Optiplex 7460 AIO, i7-8700, 16GB RAM, non-touch screen, 1TB SSD
Quote provided by IT (number 3000038179715.1, 31 May 2019, expired 12 Jun 2019.
$1199.00

Miscellaneous items (may or may not need)

1 Barcode scanner
To rename images as specimen barcode number at moment of image capture. Scanner stand may be preferred, for hands-free use.
Wasp WCS3900 CCD Barcode Scanner, USB, 6ft Cable, LED light source $88.19

1 Black Gaffer Tape
To secure background paper, color checker, and ruler
Rosco GaffTac Gaffer Tape – Black (2"x165')
ProTapes Pro Gaffer Tape (2" x 55 yd, Black) **$18.94**

1 Savage Velvetine Paper Background (52" x 20') – Midnight Black
B&H# SABGV52MB, MFR # 522020 **$86.99**

1 ColorGauge Nano Target
Image Science Associates, $270
www.imagescienceassociates.com/mm5/software/ColorGauge_Targets_comparison.pdf
Less expensive alternatives exist, however, they may be larger in size
http://www.imagescienceassociates.com/mm5/merchant.mvc?Screen=PROD&Store_Code=ISA001&Product_Code=CGNT&Category_Code=TARGETS